
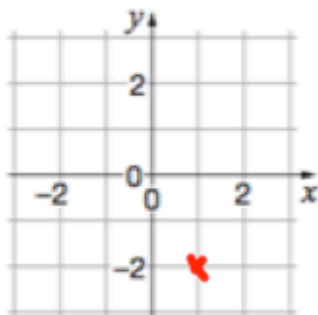
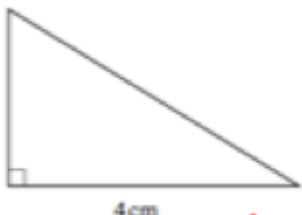
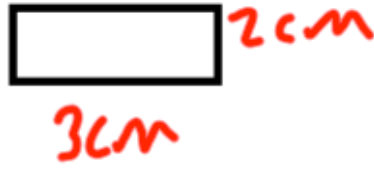
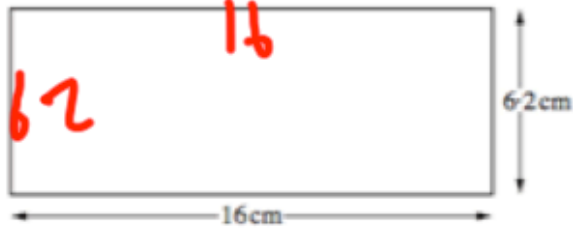
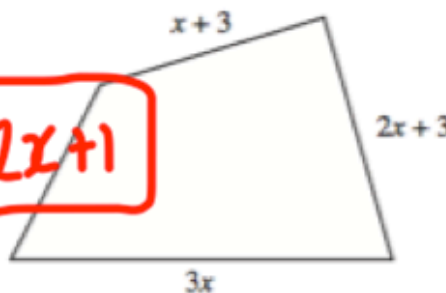



June 28th	5-a-day	Numeracy
<p>Draw shape with two lines of symmetry</p> 		
	<p>Plot the coordinate (1, -2)</p>	
 <p><math>\frac{1}{2}(4) \times (3) = 6\text{cm}^2</math></p>	<p>Draw a rectangle with the same area as this triangle.</p> 	
	<p>Calculate the perimeter of this rectangle</p> <p><math>16 + 16 + 6.2 + 6.2 = 44.4\text{cm}</math></p>	
<p>The perimeter of the shape is <math>8x + 7</math></p> <p>Work out an expression for the missing side</p> <p><math>3x + x + 3 + 2x + 3 = 6x + 6</math></p>		

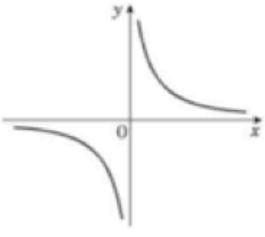
June 28	5-a-day	Foundation
<p>Expand</p> $2(5w - 3y)$ $10w - 6y$		
<p>Find the highest common factor of 24 and 16</p> $8$		
	<p>Draw the <math>y = 12 - 2x</math></p> $\begin{array}{r rrr} x & 0 & 1 & 2 \\ \hline y & 12 & 10 & 8 \end{array}$	
<p>Solve</p> $6(w - 3) = 2w + 10$ $6w - 18 = 2w + 10$ $4w - 18 = 10$		$4w = 28$ $w = 7$

June 28	5-a-day	Higher
<p>Solve the simultaneous equations</p> $5x - 3y = 10$ $3x - y = 9$ <p style="margin-left: 100px;"> <math>\rightarrow</math> <math>9x - 3y = 27</math>  <math>\rightarrow</math> <math>5x - 3y = 10</math>  <hr style="width: 100px; margin-left: 0;"/> <math>4x = 17</math> </p>		$x = 4.25$ $5(4.25) - 3y = 10$ $21.25 - 3y = 10$ $-3y = -11.25$ $y = 3.75$
<p>Evaluate <math>25^0 + 25^{1/2}</math></p> $1 + 5 = 6$		<p>check</p> $3(4.25) - 3.75 = 9$ ✓

<p>A is directly proportional to <math>C^3</math>. When <math>A = 800</math>, <math>C = 2</math>.</p> <p>Find A when <math>C = 5</math></p> <p><math>A \propto C^3</math> <math>A = k \times C^3</math></p>	$800 = k \times 2^3$ $k = 100$ $A = 100C^3$ $A = 100 \times 5^3$ $A = 12500$
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<p>Make x the subject</p> $y(x-8) = x+7$ $xy - 8y = x+7$ $xy - x = 7+8y$	<p>or</p> $y = \frac{x+7}{x-8}$ $x(y-1) = 7+8y$ $x = \frac{7+8y}{y-1}$
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or  $\frac{7+8y}{y-1}$  or  $\frac{-7-8y}{1-y}$

	<p>What graph is shown?</p> $y = \frac{k}{x}$ or $y = \frac{k}{x}$ $k > 0$
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